

Title (en)

Apparatus and methods for providing vane platform cooling

Title (de)

Vorrichtung und Verfahren zur Kühlung der Plattform einer Leitschaufel

Title (fr)

Appareil et procédés pour le refroidissement d'une plate-forme d'aube

Publication

EP 2019187 B1 20181017 (EN)

Application

EP 08252422 A 20080716

Priority

US 78200107 A 20070724

Abstract (en)

[origin: EP2019187A2] Apparatus and methods for cooling vane platforms are provided. In this regard, a representative method for cooling a vane platform (300) includes: providing a cooling channel (306) on a platform from which a vane airfoil extends, the cooling channel being defined by a cooling surface (304) and a channel cover (312), the channel cover being spaced from the cooling surface and located such that the cooling surface is positioned between a gas flow path of the vane and the channel cover; and directing a flow of cooling air through the cooling channel such that heat is extracted from the cooling surface of the platform by the flow of cooling air.

IPC 8 full level

F01D 5/18 (2006.01)

CPC (source: EP US)

F01D 5/187 (2013.01 - EP US); **F05D 2240/81** (2013.01 - EP US)

Citation (examination)

- US 2005281663 A1 20051222 - TRINDADE RICARDO [US], et al
- US 3800864 A 19740402 - HAUSER A, et al

Cited by

EP2938830A4; EP2895694A4; EP3584408A1; WO2014105392A1; WO2014042955A1; US10808552B2

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 2019187 A2 20090128; EP 2019187 A3 20111019; EP 2019187 B1 20181017; US 2009028692 A1 20090129; US 8016546 B2 20110913

DOCDB simple family (application)

EP 08252422 A 20080716; US 78200107 A 20070724